

STABLE & EASY-TO-USE

Large-area mapping with centimeter-level precision
and optional PPK for survey-grade results



1.7

cm GSD at 122m
(400ft) altitude

3G/4G

Connectivity

1

GNSS accuracy
down to 1 cm

59

Minutes
Endurance

UX11

PROFESSIONAL SMALL UAV,
SURVEY AND MAP WITH EASE

INDUSTRIES



Surveying
& Mapping



Mines &
Quarries



Power &
Utilities



Security &
Defense



Construction



Oil & Gas



Transportation



Agriculture &
forestry

KEY APPLICATIONS

Mapping & GIS

Surveying

Construction

Environmental and Conservation

Surface Mining

Aggregates

Public Land Management

Landfill Management

KEY DIFFERENTIATORS

Map large areas faster - One pilot can map 9,6 km² (3,7mi²) in an 8-hour day with 1,7 cm GSD at 122 m flight height. Industrial camera with optional PPK activation for survey-grade results. No need to sacrifice resolution for productivity when you can have both.

BVLOS-ready communications - Dual-communication systems including WiFi radio link and mobile connectivity via 3G network (4G-ready) for unlimited range.

Precise "birdlike" takeoff and landing (BTOL) - high-angle (30 degrees) takeoffs and deep stall landings for use in confined areas, low-speed landing using distance-measurement technology.

Delair Flight Deck - easy-to-use Android™ mission planning and monitoring app - pre-flight checklist, no-fly zones, modern user interface, in-flight data review.

UAV SPECIFICATIONS

Endurance ^{1,2}	Up to 59 minutes
Weight (payload included)	1.5 kg (3.3 lbs)
Wingspan	1.1 m (43 in)
Deployment time ¹	5 min
Cruise speed ^{1,2}	54 km/h (34 mph)
Take-off / Landing	Hand-launched (angle: 30 degrees) / Belly landing (angle: 30 degrees)
Flying range ¹	53 km (33 mi)
Surface area covered ¹	
Nominal (60% side overlap): 1.2 km ² (300 ac) with 1,7 cm GSD at 122 m (400 ft) AGL	
Maximum (60% side overlap): 6,5 km ² (1600 ac) with 13,9 cm GSD at 1,000 m (3,280 ft) AGL	

Communication range

3G/4G	Unlimited (within network coverage)
Delair Link (2.4 GHz radio) ^{1,3}	5 km in FCC configuration (and up to 10 km), 3 km in CE configuration (and up to 5 km).

Operating conditions

Weather	45 km/h (28 mph) wind resistance, moderate rain
Maximum altitude (MSL) ¹	Takeoff at 5,000 m (16,400 ft) Flight at 6,000 m (19,700 ft)
Landing accuracy ¹	5 m (16 ft)
Temperature ¹	-20 to 45 C (-4 to 110 F)

GNSS..... PPK optional (software activated), L1/L2, GPS+GLONASS

SENSOR

Industrial-grade RGB camera sensor built-in

Sensor type	Global shutter, distortion free
Image resolution	21.4 Mpix
Dynamic range	70 dB
HFOV / VFOV	38° / 32°
In-flight sensor configuration	Auto or manual (brightness)
In-flight picture transmission	Real-time histogram plot and photo review with quality indicators
High quality raw output	

TRANSPORT CASE

Lightweight rugged backpack, airplane checkable

14kg with all accessories, 79x43x35 cm (31x17x14 in)

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DELIVERABLES

Use Delair After Flight software (included) for PPK processing and to prepare Raw data for any photogrammetry software.

DELAIR AERIAL INTELLIGENCE PLATFORM

The cloud-based platform helps you manage, process, view, analyze and collaborate around aerial data.

Get business insights from aerial data in a simple, secure and scalable way.

Analytics available: ortho image & DSM (Digital Surface Model), Contour lines, Cross sections, Elevation profiles, Stockpile Volume Calculation, Vegetation Encroachment, Cut and Fill, and many more.

- 1 Actual results may vary depending on UAV configuration, battery age and condition, and operational, environmental and climate conditions.
- 2 Varies depending on altitude.
- 3 In good line of sight conditions with no signal interference.

Specifications subject to change without notice to improve reliability, function or design or otherwise.
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